

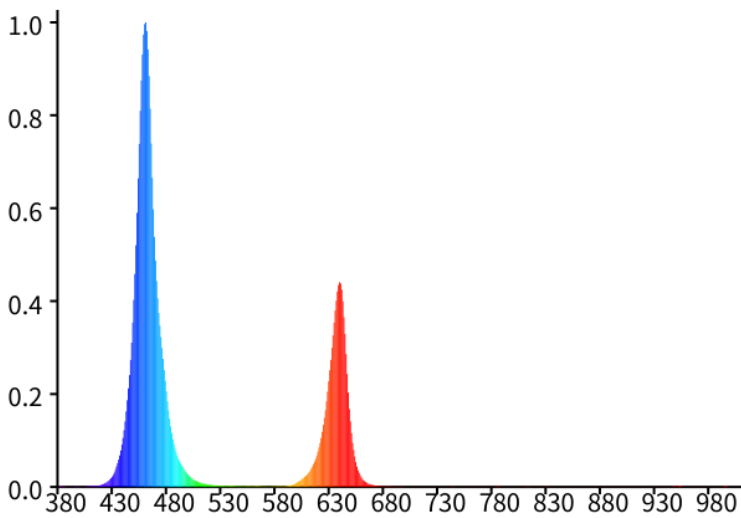
OPTICAL MEASUREMENT DATA

Red + blue light mode | English translation

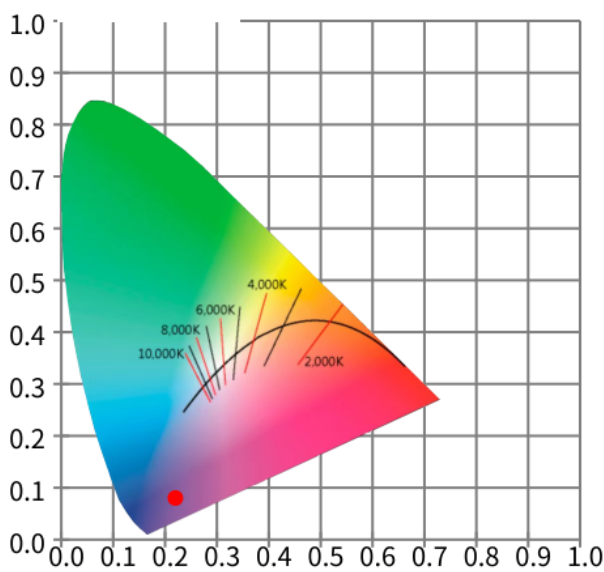
Source heading: Spectral Analysis System

Correlated colour temperature (K)	Illuminance (lx)	Peak wavelength (nm)	Centre wavelength (nm)
99999	37708.3	460.7	460.7
Dominant wavelength (nm)	Centroid wavelength (nm)	Full width at half maximum (nm)	Dark signal
0.0	513.4	18.2	6405.0
Peak signal	Colour purity (%)	Integration time (ms)	Colour tolerance
55263	0.0	0.439	95.904
Blackbody deviation (duv)	Optical power density (W/m2)	Irradiance (mW/cm2)	Irradiance (uW/cm2)
0.08612	462.172	46.217	46217.203
Illuminance (fc)	Photopic / scotopic ratio	CIE 1931 X	CIE 1931 Y
3491.5	8.8	151099.2	55208.8
CIE 1931 Z	Red-light irradiance (uW/cm2)	Near-infrared irradiance (uW/cm2)	Transmittance (%)
480823.3	13191.9	11.4	100.0

Spectral distribution



CIE 1931 chromaticity diagram



Chromaticity coordinates

x: 0.2199 y: 0.0803 u: 0.2496 v: 0.1367 u': 0.2496 v': 0.2051

Primary colour proportions

Red (%): 28.6 Green (%): 2.5 Blue (%): 68.9

Colour rendering and additional parameters are listed on page 3.

Figures reproduced from source; wavelength axis in nm.

Product:	Face mask	Product model:	SolarMask SM-1001
Product / sample No.:	01	Test date:	2025/10/28
Tester:	Liao Haijiao	Test instrument:	HP350FR
Manufacturer:	Not specified in source	Remarks:	Not specified in source

OPTICAL MEASUREMENT DATA

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Source heading: Spectral Data Report

Spectral data table

WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)
380	0.0004	27.663376	580	0.0012	82.770981	780	0.0001	4.521516
385	0.0008	52.645630	585	0.0015	101.737129	785	0.0007	50.311737
390	0.0001	6.254797	590	0.0020	132.492920	790	0.0003	19.301865
395	0.0003	22.295410	595	0.0039	263.964966	795	0.0000	0.450291
400	0.0004	26.774630	600	0.0090	603.633545	800	0.0000	1.222727
405	0.0006	41.441700	605	0.0169	1136.908813	805	0.0001	8.596147
410	0.0018	120.633926	610	0.0281	1889.365112	810	0.0002	15.856932
415	0.0024	160.501114	615	0.0474	3182.153320	815	0.0005	31.344627
420	0.0051	342.955536	620	0.0814	5462.082031	820	0.0001	6.633017
425	0.0112	752.407166	625	0.1419	9523.797852	825	0.0000	1.222539
430	0.0246	1650.705688	630	0.2398	16097.234375	830	0.0004	30.162018
435	0.0550	3695.070801	635	0.3662	24582.267578	835	0.0002	11.317221
440	0.1147	7699.283203	640	0.4417	29646.523438	840	0.0000	0.000000
445	0.2279	15298.401367	645	0.3358	22542.750000	845	0.0000	0.000000
450	0.4337	29109.148438	650	0.1558	10456.069336	850	0.0001	6.095808
455	0.7650	51352.175781	655	0.0602	4043.446289	855	0.0000	2.815084
460	1.0000	67122.671875	660	0.0236	1581.053101	860	0.0000	0.000000
465	0.8389	56307.101563	665	0.0101	677.927856	865	0.0000	0.000000
470	0.5237	35149.640625	670	0.0050	333.573090	870	0.0000	0.000000
475	0.3397	22804.255859	675	0.0025	165.068405	875	0.0000	0.000000
480	0.2174	14593.075195	680	0.0013	90.269493	880	0.0000	0.000000
485	0.1247	8369.215820	685	0.0012	80.144608	885	0.0000	3.200338
490	0.0726	4872.569336	690	0.0006	43.427620	890	0.0001	4.291559
495	0.0457	3065.439697	695	0.0007	44.767982	895	0.0000	0.000000
500	0.0283	1900.429443	700	0.0004	26.208395	900	0.0000	0.000000
505	0.0171	1146.006348	705	0.0001	5.082353	905	0.0000	0.000000
510	0.0108	726.580139	710	0.0002	11.807406	910	0.0000	0.000000
515	0.0073	490.040253	715	0.0001	4.031406	915	0.0000	0.000000
520	0.0052	351.929230	720	0.0000	0.758902	920	0.0000	0.000000
525	0.0036	241.197876	725	0.0001	5.656185	925	0.0000	0.000000
530	0.0028	187.574371	730	0.0001	7.684334	930	0.0000	0.000000
535	0.0026	171.655334	735	0.0001	6.218186	935	0.0000	0.000000
540	0.0025	170.099442	740	0.0002	15.452003	940	0.0000	0.000000
545	0.0020	136.944824	745	0.0005	35.842655	945	0.0003	18.409369
550	0.0017	112.127556	750	0.0001	3.360724	950	0.0013	85.290833
555	0.0017	114.710030	755	0.0001	5.942747	955	0.0015	99.914642
560	0.0017	116.283638	760	0.0000	0.281691	960	0.0000	1.970466
565	0.0017	116.567276	765	0.0000	0.000000	965	0.0000	0.000000
570	0.0012	79.565880	770	0.0000	2.098077	970	0.0000	0.000000
575	0.0010	66.680382	775	0.0000	2.346281	975	0.0000	0.000000

WL = wavelength. PL and PE headings and units are reproduced as supplied.

Product:	Face mask	Product model:	SolarMask SM-1001
Product / sample No.:	01	Test date:	2025/10/28
Tester:	Liao Haijiao	Test instrument:	HP350FR
Manufacturer:	Not specified in source	Remarks:	Not specified in source

OPTICAL MEASUREMENT DATA

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Source heading: Spectral Data Report

Spectral data table (continued)

WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)	WL (nm)	PL	PE (mW/nm)
980	0.0000	0.000000						
985	0.0000	0.000000						
990	0.0000	0.000000						
995	0.0010	66.741997						
1000	0.0000	0.000000						

Colour rendering indices

Ra: -87.4	Ravg: -99.3	R1: -100.0	R2: -100.0	R3: -100.0	R4: -37.5
R5: -100.0	R6: -100.0	R7: -62.2	R8: -100.0	R9: -100.0	R10: -100.0
R11: -39.8	R12: -100.0	R13: -100.0	R14: -84.5	R15: -100.0	

Additional source parameters

Colour quality scale (CQS): 1.8
Blue-light parameters - near-infrared irradiance (uW/cm2): 49.2

Translation notes

All numerical measurement values and units have been retained.
WL = wavelength. PL and PE are retained as labelled in the source.
Blank manufacturer and remarks fields are identified as not specified.
Tester name is transliterated; source company details have been omitted.
The source heading "Blue-light parameters" is retained despite the NIR field.
No measurement distance or geometry is stated in the supplied source.
Product model SM-1001 is supplied by SolarMask; equivalence to the tested sample is not verified in this translation. Independent testing is not established.

Product:	Face mask	Product model:	SolarMask SM-1001
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